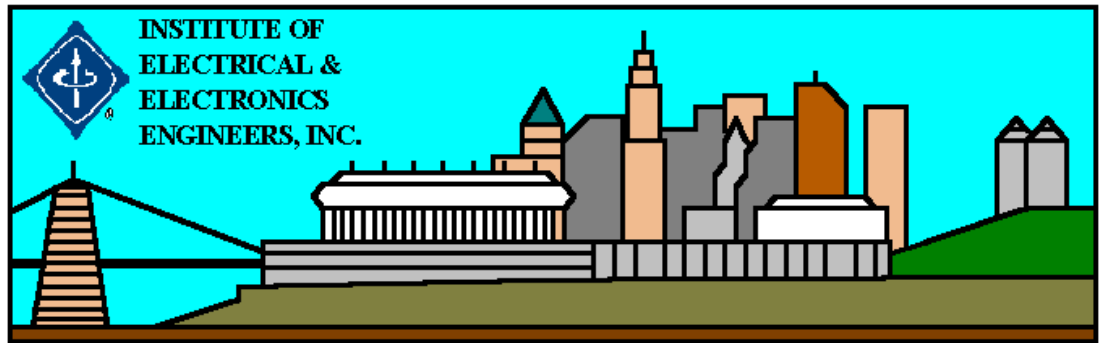


**IEEE
CINCINNATI
SECTION
NEWSLETTER
FEBRUARY
2001**



*As a prelude to a celebration of
ENGINEERS WEEK,*

ENGINEERS AND SCIENTISTS SERVING GREATER CINCINNATI
invites you to attend the
66TH ANNUAL RECOGNITION and AWARDS PROGRAM
to be held on Thursday February 22, 2001 at

**Receptions
1379 Donaldson Road.
Erlanger, Kentucky**

Time: **6:00 P.M. - Social Hour (Cash Bar)**
 7:00 P.M. - Dinner
 8:00 P.M. - Speaker (Mr. Nick Vehr)

Cost: **\$30.00**

This dinner is a joint meeting with the American Society of Civil Engineers (ASCE), the Ohio Society of Professional Engineers, and the Northern Kentucky Chapter of the Kentucky Society of Professional Engineers (NKSPE). In addition, many other technical and professional societies will be represented by those in attendance. Come and share experiences with other professionals, make new friends, enjoy good food and meet this year's award recipients.

This year's award winners are as follows:

Distinguished Engineer (a.k.a. Herman Schneider Award):
Professional Accomplishment in Industry or Consulting:
Professional Accomplishment Award in Government:
Community Service Award:
RESC Lifetime Achievement Award:

John H. Kuhn
Robert G. Hendon and James B. Rishel
William R. Reeves, Jr.
Michael J. Buhr
Joseph A. Rave, Jr.

Additional Information:

Meal: The meal features a choice of entree of either whitefish,
 chicken or a vegetarian dish. Gratuities are included in the
 meal price.

Reservations: Reservations may be made by calling Ann Rabe at (513) 287-3258. It is important when making your reservations to indicate your choice of entree. Because we are offering a selection of entree, it will be difficult to accommodate walk-ins the night of the dinner. Please cooperate and call in your reservations. You may also e-mail your reservation and choice of entree to her at arabe@cinergy.com. Reservations must be made by February 9, 2001.

Payment: You may pay at the registration table with either cash or check. Checks should be made payable to "ESGC". Or you can mail your payment to:

Cinergy Corporation
P.O. Box 960, Room 419 Annex
Cincinnati, Ohio 45201
Attention: Ann Rabe

Speaker: The speaker for the evening will be Mr. Nick Vehr. He will discuss Cincinnati's Olympic Bid.

Questions: If you have questions or need additional information, feel free to contact Ann at the phone number listed above.

TO SUBSCRIBE TO THE ELECTRONIC NEWSLETTER

This newsletter is only available via e-mail or the Section's web page at <http://ieee.cincinnati.fuse.net/> with the exception of new Section members (one issue only) or members who have specifically requested a copy be delivered through the U. S. Mail.

If you are a new Section member and would like to get this newsletter electronically, please contact Bob Morrison (Editor) at 513-287-3697 or by e-mail at j.r.morrison@ieee.org. Provide your name and member number. In case there are questions, please include a daytime telephone number as well.

If you would like the "Snail Mail" version, you must contact Bob Morrison via the above means or call the Section's voice mail at 513-629-9380.

CHAIR'S MESSAGE

by Tom Grau, Section Chair

The Executive Committee of the Cincinnati Section of the IEEE has begun its planning cycle for this year and for several years out. In this endeavor, we are dedicated to bringing to you, the IEEE Membership of the Cincinnati Section, programs that will inform you and stimulate you through engineering technology.

Our Mission is to serve the membership of this Section and to support the Societies that our members belong to. Our Vision for our Society is that we enrich our member skills through program presentations of current technologies and issues.

We are currently in the process of determining an Interest Profile of our membership so that future programs will be of current interest. While the Executive committee is charged with conducting business and programs of the Section, we are always looking for new ideas and people to help us in our work. If you are interested in becoming involved and would like to help in this, please contact me at (513) 899-3181.

In our January meeting, Mr. John C. Procario, Vice President and Chief Operating Officer of Energy Delivery, Cinergy, delivered a most effective and outstanding presentation regarding the changes in the electric power industry. Deregulation of the electric power industry has come of age and is now in effect in Ohio. Mr. Procario outlined the changes that have taken place and are expected to take place in the next five years. This was a most interesting discussion with many questions asked and answered.

UPCOMING SECTION MEETINGS AND TOPICS

March 27, 2001	Section Meeting - DSL
April 26, 2001	Section Meeting - PACE
May 2001	Section Meeting - Harris HDTV Tour
Sept. 2001	Section Meeting - Tour of Kings Island

Topics are tentative at this time. Detailed information about the Section Meetings will be included in that month's newsletter. If you are interested in attending an Executive Committee Meeting, please contact either Ron Harbaugh (513-352-2941, Ron.Harbaugh@CinPD.RCC.ORG) or Jack Beckmeyer (513-353-3834, j.beckmeyer@ieee.org).

NEW MEMBERS

The following individuals are IEEE members who are new to our Section:

JEFFREY D. BOMBELL	STEVEN T. GENTRY	GARY E. MOZUR
MICHAEL K. BURKS	JIM GRINDSTAFF	ZIGANG PAN
CRAIG S. CAUDILL	SHELBY L. GUBIN	VIPUL J. PATEL
SRIRAM CHETLAPALLE	ELOUADOUDI HAFIDI	BRIAN D. RAU
LEWIS R. COMBS	NORMAN M. HUSAR	NARAYANAN RAMACHANDRAN
LONNIE CRAWFORD	THOMAS S. JACYSZYN	KWAELI ROBINSON
CHATURA V. D NAGAHAWATTE	THOMAS M. JENKINS	NICHOLAS C. ROSENGARTEN
PREMAL DESAI	BARRY L. KLUENER	JACOB W. SCARPACI
ROBERT L. DODD	SCOTT W. KREITZER	FRANCESCO L. SPADINI
MICHAEL A. DONAHUE	G. EDWARD KUHL	MATTHEW D. TULLIS
JASON L. DUFF	STEVEN M. LEVIN	SCOTT T. WHITLOCK
MADHULIKA DUTTA	BRUCE W. MORGAN	DAVID W. YEE

We wish to extend our welcome to all of our Section's new members!!!

THINK YOU AREN'T SENIOR MEMBER MATERIAL?????

In order to be upgraded to Senior Member of IEEE, you need 10 years of professional practice with 5 years of significant performance in one of the following areas:

- A. Substantial engineering, responsibility or achievement
- B. Publication of engineering or scientific papers, books or inventions
- C. Technical direction or management of important scientific or engineering work with evidence of accomplishment
- D. Recognized contributions to the welfare of the scientific or engineering profession
- E. Development or furtherance of important scientific or engineering courses in a "recognized education program"
- F. Contributions equivalent to those of (A) to (E) above in areas such as technical editing, patent prosecution or patent law, provided these contributions serve to advance progress substantially in IEEE designated fields.

Many prospective applicants make the mistake of assuming that "significant performance" requires special awards, patents or other extremely sophisticated technical accomplishments; such is not the case. Substantial job responsibilities such as team leader, task supervisor, engineer in charge of a program or project, engineer or scientist performing research with some measure of success (papers), or faculty developing and teaching courses with research and publications, all are indications of significant performance.

Ten years of professional practice: The A&A Committee evaluating your application will count the years you have been in professional practice. Your educational experience is credited toward that time as follows: 3 years for a baccalaureate degree in an IEEE-designated field; 4 years if you hold baccalaureate and masters degrees; and five years for a doctorate.

If you are interested in upgrading your membership, please contact one of the Executive Committee Members listed at the end of this newsletter.

ATTENTION Seniors and Retirees ! CHECK on RESC Activities !

The Retired Engineers and Scientists of Cincinnati – RESC for short – invite those who are retired or semi-retired and would like to share good fellowship while pursuing interests in technical, community, nostalgia, travel, and business, or industry developments. Activities include monthly luncheon meetings, periodic plant tours, and golf in season. The Spring 2001 meeting topics include Digital Photography, Laser Therapy Trends, and Nile River Cruise. Plant tours include GE Engines, Cintas, and Fernald EPA Cleanup Site.

Luncheon meetings are held on the third Tuesday of each month from October through May, usually on the lower level the Unity Center, 1401 McMillan Ave. at Grandview Ave., just east of the former Engineering Society building.

RESERVATIONS and INFORMATION available by telephoning RESC contacts at either (513) 231-7831 or (513) 751-8035.

NEXT MEETING

*Tuesday, February 20
11:30 AM*

Luncheon meeting -- Reservations required by February 14

**Program: Technology and Archaeology
Joe Shomaker
Cultural Resource Manager
Fluor Fernald Inc.**

Beginning with the areas prehistoric peoples, Joe will describe the artifact findings and newer technologies which assist preservation or restoration in compliance with regulations to honor the native Americans.

Enjoy these activities with this active group of about 200 members. Spouses are always welcome and special events are planned especially for their enjoyment.

There's a Direct Channel to Specifiers and Purchasers of Electrical and Electronic Equipment and Services in Greater Cincinnati...

The IEEE Cincinnati Section Newsletter !!!

**It Can Work For You Because it's Read by HUNDREDS of Designers,
Engineers and Managers Each Month, Eight Times a Year.**

That's a Lot of Prime-Target Exposure !!!

The Newsletter is now also available on our Web Page at:

<http://ieee.cincinnati.fuse.net/>

If you are interested in placing an ad, or if you have questions, please contact:

**Bob Morrison, Newsletter Editor
IEEE, c/o Cinergy Corp.
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Cincinnati, Ohio 45201
Ph. (513) 287-3697, Fax (513) 287-3698
e-mail: j.r.morrison@ieee.org**

Scanning the Past: A History of Electrical Engineers from the Past

Submitted by Dick Reiman, Historian

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Morse and the Telegraph

This month marks the 200th anniversary of the birth of Samuel F. B. Morse, who was born April 27, 1791, in Charlestown, Massachusetts. It seems an appropriate occasion for some reflections on the famous artist-inventor and the electrical communication system that he and his associates developed.

Morse's father, Jedediah, was a leader in the Congregational church who also authored geography books, causing his son to gain the nickname, "Geography Morse." Samuel Morse graduated in 1810 from Yale, where he acquired some knowledge of electrical science from Benjamin Silliman, Jeremiah Day, and Sereno Dwight. Morse's early career was devoted to art, and he managed to spend about four years in Europe where he was tutored in art by Benjamin West. Morse returned to Massachusetts in 1815 and enjoyed some success as a painter of portraits but not of the large historical painting he preferred. In 1825, he moved to New York City where he and other artists founded the National Academy of Design, with Morse serving as its president. In 1827, he attended lectures on the relatively new science of electromagnetism given by James F. Dana of Columbia College.

In 1829, Morse again went to Europe where he worked and studied art for nearly three more years. Among his major projects was a painting known as the Gallery of the Louvre that sold for \$1200 in 1835. (In July 1982, this painting was sold for \$3.25 million, reported to have been the highest price ever for an American painting at the time.) In 1832, Morse took a position as professor of painting and sculpture at New York University. He conducted two unsuccessful campaigns for mayor of New York City in 1836 and 1841.

In a frequently cited paper published in 1977, the historian of technology, Eugene S. Ferguson, stressed the importance of nonverbal thought in technology, a concept that has since become a popular interpretive theme. In his book, *Emulation and Invention*, Brooke Hindle pointed out the importance of nonverbal thought in understanding Morse's success as an inventor. Hindle noted that Morse's exceptional ability to think spatially and to visualize in his mind alterations in paintings also became manifest in his work on telegraphic devices and systems.

Morse used his art studio at New York University as a telegraph laboratory for his early experiments. He received important assistance from Leonard D. Gale, professor of geology and mineralogy at the university. Gale helped with construction of batteries and informed Morse of related work by Joseph Henry, a leading American authority on electromagnetism.

Alfred Vail, who graduated from New York University in 1836, became a participant in development of the Morse telegraph in September 1837. Members of the Vail family owned the Speedwell Ironworks in Morristown, New Jersey, and they provided both financial and technical assistance to the project. The first public demonstration of the Morse system took place in January 1838 at Speedwell, with signals received over a two-mile line. (The significance of this demonstration was recognized as an electrical engineering milestone in a dedication ceremony at Historic Speedwell in May 1988. This was part of an ongoing milestone program supervised by the IEEE History Committee and administered by the Center for History of Electrical Engineering.)

Morse received a telegraph patent in 1840 and in 1843 was recipient of a \$30000 grant from the federal government to be used to build a telegraph line between Washington, D.C. and Baltimore, Maryland. The famous "What hath God Wrought" message was transmitted over this line on May 24, 1844. Morse's effort to sell his system to the United States government failed, and the Magnetic Telegraph Company was founded in 1845 to be building a telegraphic network. By 1848, every state east of the Mississippi except Florida was linked by telegraph lines, and there were more than 23000 miles of telegraph wire in the United States by 1852. Morse disclosed in 1853 having received \$193 000 in income from telegraphy as a shareholder in several firms.

The Western Union Company, formed in 1856, achieved dominance in American telegraphy in the post Civil War period and handled 92 per cent of telegraphic traffic in 1880. The first transcontinental telegraph line was completed in October 1861. (This achievement also was recognized as an electrical engineering milestone at a dedication ceremony at the Fort Laramie National Historic Site in Wyoming in August 1990).

The telegraph served an important command and control function for both sides during the American Civil War. Telegraphic communication also facilitated control of railroad traffic, news gathering, time standardization, and numerous other business and governmental activities. The Western Union president, William Orton, told a congressional committee in 1870 that the "telegraph lives upon commerce" and "it is the nervous system of the commercial system."

The first transatlantic telegraph cable was completed in 1858, although it failed after a few weeks. After the Civil War, a new transatlantic cable was laid successfully in 1866. (This extraordinary technological achievement was recognized as an international electrical engineering milestone in a ceremony at the Heart's Content cable station in Newfoundland, Canada, in June 1985).

Samuel Morse died in 1872, but he had lived to see the installation of a network of telegraph lines and cables connecting cities and towns around the world. The time required to communicate between London and New York City has been reduced from approximately two weeks to the speed of electrical impulses through a submarine cable. Morse's telegraph and the Morse code established the precedent of the binary mode of information exchange that has become so ubiquitous in our own age of digital computers and telecommunications networks. Perhaps some older readers still remember a time when it was common practice to send important personal messages by telegram and when the Western Union office was a communication center in every city and town.

*James E. Brittain
School of History, Technology, and Society
Georgia Institute of Technology*

IEEE NEWS

Submit a Review of our Bestseller

A new feature has been added to the IEEE Educational Activities (EA) website. We are inviting those who have utilized a best selling product to submit a review for it.

Have you read this month's best seller, the timely Selected Reading: "The Evolution of Electric Power Transmission Under Deregulation," edited by George C. Loehr and John A. Casazza? If so, please let your colleagues know your evaluation.

At the EA homepage, www.ieee.org/eab, click on 'Review this month's BESTSELLER' and it will take you to the IEEE EA Resources Directory. Simply click on the Submit link and an email message box will pop up. Please use 'Best seller review submission' in the subject line.

EA appreciates the time you take for a thoughtful review of this book. For further information please contact Lynn Murison at l.murison@ieee.org.

Up to 20% off on selected courses at NTU through 31 March 2001

JANUARY 8, 2001 - PISCATAWAY, NJ. To celebrate the new IEEE educational partnership with National Technological University (NTU), IEEE members will be able to save up to 20% on selected non-credit courses offered through the IEEE Professional Development Institute (PDI).

The IEEE is pleased to announce a new educational partnership with NTU, a pre-eminent leader in e-learning and distance education since 1984. IEEE members will have access to specially selected programs and courses offered through NTU and its affiliate, PBS The Business & Technology Network. NTU and its partner join the IEEE PDI roster of University Partners. Discounts are applicable to non-credit courses only.

NTU offers graduate engineering and IT degrees with courses provided from 52 leading universities, including 25 of the top 50 engineering schools. Those offered through PBS The Business & Technology Network come from such prestigious institutions as MIT and Georgia Tech.

IEEE Educational Activities has selected two of NTU's online master's degree programs to promote through the IEEE PDI, M.S. in Software Engineering and M.S. in Systems Engineering, because of their special applicability to our members. These degree programs are available online and allow you to select your classes from several different NTU participating universities.

The following online non-credit professional development programs have also been selected by IEEE as being of special merit to the members:

- * MIT's Integrated Supply Chain Management series (Certificate program: six, one-hour online programs, plus six hours of Web-based coursework)
- * MIT's E-Business 2001: Predictions and Projections (Certificate program: six, one-hour online programs, plus six hours of Web-based coursework)
- * The Georgia Tech Mid-Management Program - A Certificate Program for High-Potential Managers (13, three-hour online programs)
- * Trends in Telecommunications - Featuring Dr. Jag Sheth (three, two-hour online programs)

After March 31, all members will be entitled to discounts of up to 10% on non-credit courses. To learn more about the advanced degrees and professional development certificate programs available through IEEE, go to www.ieee.org/pdi/ntu. Registration for these courses must be through the IEEE PDI website. For further information contact Alan Trembly, Manager, Technical & Electronic Product Development, at a.trembly@ieee.org or +1 732 562 5488.

**Special IEEE Member Offer For MBA PowerPak(tm) Extended:
Get the Year 2000 Price Less 10% For Spring 2001 Sessions**

JANUARY 15, 2001 - PISCATAWAY, NJ. Global Resources, a selected non-degree MBA education vendor for IEEE, has extended its Fall 2000 offer to IEEE members for MBA PowerPak(tm) spring 2001 registrations (www.MBAPowerPak.com).

Register for a spring 2001 MBA PowerPak(tm) session before February 16, 2001 and the cost for the entire 8-day program is \$3,600. After February 16, the cost of the program will be \$4,050, a 10% IEEE member discount on the 2001 price of \$4500.

Global Resources, a global management training and consulting firm, has designed MBA PowerPak(tm) for high-tech managers seeking a management skill set in functional business disciplines such as Business Strategy & Planning, Global Marketing & Operations Management, Finance, Information Technology/e-commerce, Organizational Development, Managerial Effectiveness, and Ethics. This globally oriented program provides the time-pressed working professional a condensed, MBA-type education with practical management tools and methodologies, on-the-job applications, and exercises in a dynamic, multi-company classroom environment. 6.3 IEEE Continuing Education Units (CEUs) are offered. Program certification is provided through Northeastern University.

Registration for the following courses is through Global Resources:

Location: Chicago (Lisle, IL)

Dates: Part I Mar. 6 - 9 and Part II Apr. 3 - 6, 2001

Location: Orange County (Dana Point, CA)

Dates: Part I Mar. 20 - 23 and Part II Apr. 17 - 20, 2001

Location: Somerset, NJ

Dates: Part I May 8 - 11 and Part II June 5 - 8, 2001

Location: Boston (Ashland, MA)

Dates: Part I May 22 - 25 and Part II June 26 - 29, 2001

For more information, visit the MBA PowerPak(tm) website at www.MBAPowerPak.com or call the MBA PowerPak(tm) Registration Center toll-free anytime at 1 877 GRTRAIN (1 877 478-7246).

IEEE-USA Congressional Fellows Begin 2001 Assignments

JANUARY 22, 2001 - WASHINGTON - Dr. Peter Winokur, Jason Remer and Dr. Russell Lefevre have begun their IEEE-USA Congressional Fellowships with the 107th Congress. Each will be advising a member of Congress on key electrotechnology issues.

"I can't imagine a more exciting time to be involved in the political process than this upcoming year," Remer said. "Technology policymaking is sure to play a major role in Congress this year, especially in light of the increase in e-commerce, Internet security issues and electric power deregulation."

Dr. Winokur, manager for radiation technology and assurance at Sandia National Laboratory in Albuquerque, is working in the office of Sen. Harry Reid (D-Nev.) on renewable energy and technology issues. Sen. Reid is ranking member of the Environment and Public Works Committee and the Energy and Water Appropriations Subcommittee. Dr. Winokur will work on legislation to promote the development of clean, renewable energy sources such as wind, biomass (plant materials and animal waste), sunshine and geothermal heat.

Remer, a design engineering supervisor for Entergy's Arkansas Nuclear One plant outside of Russellville, Ark., is supporting Rep. Joe Barton (R-Texas) on national energy policy issues. Rep. Barton, whose district is in the Dallas-Ft. Worth area, is Chairman of the newly organized Energy and Air Quality Subcommittee of the Energy and Commerce Committee. Remer will assist Barton on national energy strategy, nuclear energy and electric power restructuring issues.

Dr. Lefevre, vice president of Technology Services Corporation in Los Angeles, is advising Sen. John D. Rockefeller (D-W.V.) on science and technology issues. Sen. Rockefeller serves on the Senate Commerce, Science and Transportation Committee and is ranking member of the Aviation subcommittee. Dr. Lefevre will lend his expertise in a number of scientific areas, including alternate fuels, electric vehicles, frequency spectrum allocation and aviation safety.

IEEE-USA's Congressional Fellows join Dr. Saj Durrani, whose IEEE-USA Executive Fellowship with the Federal Communications Commission's Office of Engineering and Technology runs through June 2001.

IEEE-USA Congressional Fellows accept a one-year appointment to share their scientific and technical knowledge by working on the staff of a U.S. Congressperson or Congressional committee. This advisory role provides an engineer's perspective on public policy issues.

IEEE-USA is accepting applications for 2002 Congressional and FCC Fellowships through Feb. 23, 2001. For more information on both opportunities, visit the Government Fellowships web page at <http://www.ieeeusa.org/forum/govfel> or contact Chris Brantley at c.brantley@ieee.org.

**Ned R. Sauthoff, 2001 IEEE-USA President
President's Column, January-February 2001**

Communications Play Key Role in Building Careers and Shaping Public Policy

Recent blackouts and power shortages in California, the Northwest, Midwest, Northeast and Florida have demonstrated that electric power policy has a large impact on the public benefits of electrotechnology. The IEEE and its members -- leaders in electrotechnology and information technology -- have key roles to play in maximizing the public benefit of our field. Achieving that goal entails more than technical work, it requires involvement by members in the public-policy process.

Similarly, career success for today's mobile engineer demands both technical and non-technical skills and a supportive policy environment.

To support our members both individually and collectively, IEEE-USA is working hard to increase the availability of our quality professional development programs and to increase the effectiveness of our government relations programs. We do this by focusing on the highest-impact issues and by engaging our geographically dispersed U.S. members in grassroots activism.

Communication is key to making our programs more available, and to engaging members in public-policy programs. Based on surveys and studies of member preference, we have designed a comprehensive IEEE-USA member communications program. At the forefront of our efforts are the new magapaper IEEE-USA News and Views, and two insightful monthly Web-based magazines (Webzines), IEEE-USA Today's Engineer and IEEE-USA Policy Perspectives.

Here's a more in-depth look at each one:

News and Views, the lynchpin of our new communications efforts, is a quarterly print publication that will debut in March. It will feature articles that help you build your career and alert you to IEEE-USA products and activities that help shape public policy in the areas of career policy and technology policy. It will also include pointers to material available in previous Webzine issues and will be delivered with your copy of The Institute and Spectrum.

Today's Engineer replaces the award-winning print publication by the same name that was available through subscription only. It provides information on careers in electrotechnology and information technology, on products useful for building your career, and on professional development for today's engineer. It appeared for the first time in January.

Policy Perspectives addresses topics in both career policy and technology policy, including the status of pending legislation, IEEE-USA position statements and opportunities for you to act. It also began in January.

Both Webzines can be found at <http://www.todaysengineer.org>. Each one has an "opt-in" notification service, where you can sign up to receive an e-mail when each new issue of Today's Engineer and Policy Perspectives is posted on the IEEE-USA Web site. For this service, go to <http://www.todaysengineer.org/emailupdates>.

You, the member, are the most effective messengers of the perspectives of engineers to your congressional representatives and senators. As former Speaker of the House Tip O'Neill once said, "All politics is local." Our electronic grassroots outreach program enables you to monitor and act on developing legislation and issues that affect our members and the engineering profession. You can receive legislative alerts on specific issues of interest at www.ieeeusa.org/forum/grassroots. And you can have news delivered your in-box by subscribing to IEEE-USA's Eye on Washington electronic newsletter at <http://www.ieeeusa.org/emailupdates>.

Our Policy Forum (<http://www.ieeeusa.org/forum>) and Legislative Action Center (<http://congress.nw.dc.us/ieeeusa>) provide a variety of tools and resources to help educate you about the issues, prepare a letter to your congressperson, or arm you with material for a visit to your congressperson's district office.

These communications vehicles play a key role in IEEE-USA's mission to build careers and shape public policy. In the area of building careers, IEEE-USA sponsors conferences and symposia; develops and disseminates career-development tools; argues for a strong U.S. engineering workforce through programs ranging from pre-college to continuing education, to permanent immigration; and supports pension portability for a mobile workforce. In the area of technology policy, IEEE-USA works for reliable restructuring of the electric supply industry; strong research and development through both industrial tax incentives and federal funding; fair intellectual property rights in today's economy; and privacy and reliability of the information infrastructure.

So I encourage you to utilize the communications tools we have provided. Because electrotechnology and information technology carry great potential for improving the public's quality of life, it is up to us to communicate our important messages both inside and outside the profession. We each have a responsibility to serve by providing both authoritative perspectives to decision makers and professional development tools to our members. Here's to a great 2001.

The IEEE Cincinnati Section Executive Committee
Member Names and Phone Numbers

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